



SEQUENCE LISTING

<110> BRANDT, CURTIS R.
BULTMANN, HERMANN

<120> PHARMACOLOGICALLY ACTIVE ANTIVIRAL PEPTIDES AND METHODS
OF THEIR USE

<130> 032026-0460

<140> 09/777,560

<141> 2001-02-06

<150> 60/184,057

<151> 2000-02-22

<150> 60/180,823

<151> 2000-02-07

<160> 32

<170> PatentIn Ver. 3.2

<210> 1

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 1

Arg Arg Lys Lys Ala Ala Val Ala Leu Leu Pro Ala Val Leu Leu Ala
1 5 10 15

Leu Leu Ala Pro
20

<210> 2

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 2

Arg Arg Lys Lys Ala Ala Val Ala Leu Leu Pro Ala Val Leu Leu Ala
1 5 10 15

Leu Leu Ala Pro
20

<210> 3
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 3
 Arg Arg Lys Lys Ala Ala Val Ala Leu Leu Ala Val Leu Leu Ala Leu
 1 5 10 15

Leu Ala Pro Pro
 20

<210> 4
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 4
 Arg Arg Lys Lys Pro Ala Val Leu Leu Ala Leu Leu Ala
 1 5 10

<210> 5
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 5
 Lys Leu Ala Leu Lys Leu Ala Leu Lys Ala Leu Lys Ala Ala Leu Lys
 1 5 10 15

Leu Ala

<210> 6
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<220>
 <221> MOD_RES
 <222> (11)..(12)
 <223> D-form amino acid

<400> 6
 Lys Leu Ala Leu Lys Leu Ala Leu Lys Ala Leu Lys Ala Ala Leu Lys
 1 5 10 15

Leu Ala

<210> 7
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 7
 Arg Gln Ile Lys Ile Trp Phe Pro Asn Arg Arg Met Lys Trp Lys Lys
 1 5 10 15

Pro Gly Tyr Ala Gly Ala Val Val Asn Asp Leu
 20 25

<210> 8
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<220>
 <221> MOD_RES
 <222> (1)..(16)
 <223> D-form amino acid

<400> 8
 Arg Gln Ile Lys Ile Trp Phe Pro Asn Arg Arg Met Lys Trp Lys Lys
 1 5 10 15

<210> 9
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 9

Arg Gln Ile Lys Ile Phe Phe Pro Asn Arg Arg Met Lys Phe Lys Lys
 1 5 10 15

<210> 10

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 10

Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro Gly Tyr Ala Gly
 1 5 10 15

Ala Val Val Asn Asp Leu
 20

<210> 11

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 11

Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro Gly Asp Val Tyr
 1 5 10 15

Ala Asn Gly Leu Val Ala
 20

<210> 12

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 12

Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Lys Ile Asn Leu
 1 5 10 15

Lys Ala Leu Ala Ala Leu Ala Lys Lys Ile Leu
 20 25

<210> 13
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 13
 Asp Pro Lys Gly Asp Pro Lys Gly Val Thr Val Thr Val Thr Val Thr
 1 5 10 15

Val Thr Gly Lys Gly Asp Pro Lys Pro Asp
 20 25

<210> 14
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Formula
 peptide

<220>
 <221> MOD_RES
 <222> (1)..(10)
 <223> charged amino acid; e.g. Lys or Arg; this region may encompass
 either 0 or 3-10 Xaa repeats with the proviso that in one
 embodiment either residues 1-10 are not present or residues
 27-36 are not present

<220>
 <221> MOD_RES
 <222> (27)..(36)
 <223> charged amino acid; e.g. Lys or Arg; this region may encompass
 either 0 or 3-10 Xaa repeats with the proviso that in one
 embodiment either residues 1-10 are not present or residues
 27-36 are not present

<400> 14
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ala Ala Val Ala Leu Leu
 1 5 10 15

Pro Ala Val Leu Leu Ala Leu Leu Ala Pro Xaa Xaa Xaa Xaa Xaa Xaa
 20 25 30

Xaa Xaa Xaa Xaa
 35

<210> 15
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Formula
peptide

<220>

<221> MOD_RES

<222> (1)..(10)

<223> charged amino acid; e.g. Lys or Arg; this region may encompass
either 0 or 3-10 Xaa repeats with the proviso that in one
embodiment either residues 1-10 are not present or residues
20-29 are not present

<220>

<221> MOD_RES

<222> (20)..(29)

<223> charged amino acid; e.g. Lys or Arg; this region may encompass
either 0 or 3-10 Xaa repeats with the proviso that in one
embodiment either residues 1-10 are not present or residues
20-29 are not present

<400> 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Ala Val Leu Leu Ala
1 5 10 15

Leu Leu Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
20 25

<210> 16

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 16

Arg Arg Lys Lys
1

<210> 17

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 17

Arg Arg Lys Lys Leu Ala Ala Leu Pro Leu Val Leu Ala Ala Pro Leu
1 5 10 15

Ala Val Leu Ala
20

<210> 18
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 18
Arg Arg Lys Lys Ala Ala Val Ala Leu Leu Pro
1 5 10

<210> 19
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 19
Arg Arg Lys Lys Ala Val Ala Val Ala Val Pro Ala Val Leu Leu Ala
1 5 10 15

Leu Leu Ala Pro
20

<210> 20
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 20
Arg Arg Lys Lys Pro Ala Val Leu Leu Ala
1 5 10

<210> 21
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 21

Arg Arg Lys Lys Pro Ala Val Leu Leu Ala Leu Leu Ala
 1 5 10

<210> 22

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 22

Arg Arg Lys Lys Pro Ala Val Leu Leu Ala Leu Leu Ala Leu Leu Ala
 1 5 10 15

<210> 23

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 23

Arg Arg Lys Lys Ala Leu Leu Pro Ala Val Leu Leu Ala Leu Leu Ala
 1 5 10 15

Pro

<210> 24

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 24

Arg Arg Lys Lys Pro Ala Val Leu Leu Ala Leu Leu Ala Pro
 1 5 10

<210> 25

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 25

Arg Arg Lys Lys Leu Leu Ala Leu Leu Ala Pro
1 5 10

<210> 26

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 26

Arg Arg Lys Lys Leu Leu Ala Pro
1 5

<210> 27

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 27

Arg Arg Lys Lys Ala Ala Val Ala Leu Leu Pro Ala Val Leu Leu Ala
1 5 10 15

Leu

<210> 28

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 28

Arg Arg Lys Lys Ala Ala Val Ala Val Val Pro Ala Val Leu
1 5 10

<210> 29

<211> 11

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 29
Arg Arg Lys Lys Ala Ala Val Ala Val Val Pro
1 5 10

<210> 30
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 30
Arg Arg Lys Lys Ala Ala Val Ala
1 5

<210> 31
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 31
Pro Gly Tyr Ala Gly Ala Val Val Asn Asp Leu
1 5 10

<210> 32
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 32
Pro Gly Asp Val Tyr Ala Asn Gly Leu Val Ala
1 5 10